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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/811,632	03/20/2001	Sunil H. Contractor	BS00-360	1476
28970	7590	01/09/2004	EXAMINER	
SHAW PITTMAN			PHU, SANH D	
IP GROUP				
1650 TYSONS BOULEVARD			ART UNIT	PAPER NUMBER
SUITE 1300			2682	
MCLEAN, VA 22102			DATE MAILED: 01/09/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/811,632	CONTRACTOR, SUNIL H.	
	Examiner	Art Unit	
	Sanh D Phu	2682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-58 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-58 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

- 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
 - a) The translation of the foreign language provisional application has been received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6.
- 4) Interview Summary (PTO-413) Paper No(s). _____ .
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____ .

DETAILED ACTION

Information Disclosure Statement

1. The IDS filed 12/05/2001 has been considered and recorded in the file.

Claim Rejections – 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 2, 8, 13-22, 26, 30, 35, 40-53 and 58 are rejected under 35 U.S.C. 102(e) as being anticipated by Karp et al (5,154,727).

Regarding to claim 1, (see Fig. 1, 2, col. 2, line 62 to col. 4, line 58), Karp et al discloses a system for tracking service personnel (Fig. 1) wherein the system comprises:

a portable wireless device (112);

location identification means (140) for acquiring location data (142B) of the portable wireless device (see col. 3, lines 21–59);
a processor at a wireless service provider (120) for converting positions based on the location data to corresponding street addresses using a database for converting coordinate pairs to street addresses (see col. 3, line 15 to col. 4, lines 14);
tracking means (136) for generating a service person track report (122) based on the corresponding street addresses (see col. 3, lines 15–20 and col. 3, line 61 to col. 4, line 33);
thereby enabling the service person track report to be generated by the wireless service provider (120) and transmitted to a subscriber in order to track a service person (110A, 110B) (see col. 7, lines 19–35).

Regarding to claim 2, (see Fig. 1,3, 4A–B), Karp et al discloses that the location identification means acquires location data based on the detection of a specific phone number (118A) associated with tracking service personnel (col. 4, line 59 to col. 5, line 45 and col. 5, lines 50 to col. 6, line 17).

Regarding to claim 8, (see Fig. 10B), Karp et al discloses that the location data is based on a wireless network-based angle of arrival (AOA) computation (col. 9, lines 45–56).

Regarding to claim 13, Karp et al discloses a system for tracking service personnel wherein the system, comprising:

a portable wireless device (112);
location identification means (140) for acquiring location data (142B) of the portable wireless device (see col. 3, lines 21–59);
a processor at a wireless service provider (120) for converting positions based on the location data to corresponding street addresses using a database, the database comprising a geographic information system (GIS) (which is geographic data) (see col. 3, lines 15 to col. 4, line 14) ;
tracking means (136) for generating a service person track report (122) based on the corresponding street addresses (see col. 3, line 61 to col. 4, line 33);

thereby enabling the service person track report to be generated by the wireless service provider 120) and transmitted to a subscriber in order to track a service person (110A, 110B)(see col. 7, lines 19–35).

Regarding to claim 14, Karp et al discloses that the location identification means acquires location data according to a periodic time interval (see col. 3, lines 21–30).

Regarding to claim 15, Karp et al discloses that the service person track report is used by the subscriber to prepare a bill (see col. Col. 3, line 61 to col. 4, line 14).

Regarding to claim 16, Karp et al discloses that the service person track report is used by the subscriber to gather efficiency statistics on the service person or on a group of service persons (see col.3, line 61 to col. 4, line 14).

Regarding to claim 17, Karp et al discloses that the service person track report includes information indicating duration of time the portable wireless device was at a specific street address (see col. 3, line 61 to col. 4, line 14).

Regarding to claim 18, Karp et al discloses a system tracking service personnel wherein the system, comprising:

a portable wireless device (112);

location identification means (140) for acquiring location data (142B) of
the portable wireless device (see col. 3, lines 21–59);

a processor at a wireless service provider (120) for converting positions
based on the location data to corresponding street addresses using a database
for converting coordinate pairs to street addresses, and for comparing the
positions to a schedule of predetermined sites in order to confirm whether a
site visit was made (see col. Col. 3, line 15 to col. 4, line 33, col. 5, lines 15–25
and col. 6, lines 18–27);

tracking means (136) for generating a service person track report based
on at least the

corresponding street addresses (see col. 3, line 61 to col. 4, line 14);

thereby enabling the service person track report to be generated by a
carrier (120) and transmitted to a subscriber in order to track a service person
(110A, 100B)(see col. 4, lines 5–6 and col. 7, lines 19–35).

Regarding to claim 19, (see Fig. 5), Karp et al discloses that the schedule
is generated by accessing the database in order to convert street addresses

corresponding to the predetermined sites to coordinate pairs corresponding to the predetermined sites (see col. 5, line 15–25 and col. 6, line 18–22)

Regarding to claim 20, (see Fig. 6), Karp et al discloses that the coordinate pairs comprise X-Y coordinate pairs or longitude-latitude coordinate pairs (col. 5, lines 15–25 and col. 6, lines 18–22).

Regarding to claim 21, (see Fig. 7A, 7B, 8), Karp et al discloses that the service person track report includes information indicating whether a site visit was made to each of the predetermined sites (see col. 3, line 60 to col. 4, line 15 and col. 8, lines 31–64).

Regarding to claim 22, (see Fig. 7A, 7B), Karp et al discloses that the location identification means acquires location data based on the detection of detection of a specific phone number associated with tracking service personnel or the detection of an emergency phone number (see col. 8, lines 31–55).

Regarding to claim 26, (see Fig. 10B), Karp et al discloses that the location data is based on a wireless network-based angle of arrival (AOA) computation (see col. 9, lines 45–56).

Regarding to claim 30, (see Fig. 1, 2, col. 2, line 62 to col. 4, line 58), Karp et al discloses a method for tracking service personnel (Fig. 1) wherein the method, comprising:

Step (112) for providing a portable wireless device to a service person; Step (140) for acquiring location data of the portable wireless device (see col. 3, lines 21–59); Step (120) for converting positions based on the location data to corresponding street addresses using a database for converting coordinate pairs to street addresses (see col. 3, line 15 to col. 4, line 33, col. 5, lines 15–25, col. 6, lines 18–27); and

Step (136) for generating a service person track report (122) based on the corresponding street addresses (see col. 3, line 61 to col. 4, line 14).

Regarding to claim 35, (see Fig. 10B), Karp et al discloses that the location data is based on a wireless network-based angle of arrival (AOA) computation (see col. 9, lines 45–56).

Regarding to claim 40, Karp et al discloses a method for tracking service Personnel wherein the method, comprising:

Step (112) for providing a portable wireless device to a service person;

Step (140) for acquiring location data of the portable wireless device (see col. 3, lines 21–59);

Step (120) for converting positions based on the location data to corresponding street addresses using a database, the positions comprising X-Y pairs or latitude-longitude pairs, and the database comprising a geographic information system (GIS) (which is geographic data) (see col. 3, line 15 to col. 4, line 33, col. 5, lines 15–25, col. 6, lines 18–27); and

Step (136) for generating a service person track report based on the corresponding street addresses (see col. 3, line 61 to col. 4, line 14).

Regarding to claim 41, Karp et al discloses step of acquiring corresponds to a periodic time interval (see col. 3, lines 21–30).

Regarding to claim 42, Karp et al discloses step of transmitting the service person track report from a wireless carrier to a subscriber (see col. 3, line 61 to col. 4, line 14).

Regarding to claim 43, Karp et al discloses step of preparing a bill based on the service person track report (see col. 3, line 61 to col. 4, line 14).

Regarding to claim 44, Karp et al discloses step of gathering efficiency statistics on the service person or a group of service persons based on the service person track report (see col. 3, line 61 to col. 4, line 14).

Regarding to claim 45, Karp et al discloses step of comparing the positions to a schedule of predetermined sites in order to confirm whether a site visit was made (see col. 3, line 15 to col. 4, line 14).

Regarding to claim 46, Karp et al discloses that the schedule of predetermined sites is generated by accessing the database in order to convert street addresses corresponding to the predetermined sites to coordinate pairs corresponding to the predetermined sites (see col. 5, lines 15–25, col. 6, lines 18–27 and col. 7, line 60 to col. 8, line 17).

Regarding to claim 47, Karp et al discloses that the step of comparing is based on a threshold (see col. 3, line 61 to co. 4, line 2).

Regarding to claim 48, Karp et al discloses that the threshold is based on a distance (see col. 3, line 61 to col. 4, line 2.)

Regarding to claim 49, Karp et al discloses that the threshold is based on a distance and a time interval (see col. 3, line 61 to col. 4, line 2).

Regarding to claim 50, (see Fig. 7A, 7B, 8), Karp et al discloses that the service person track report includes information describing whether a site visit was made to each of the predetermined sites (see col. 3, line 61 to col. 4, line 2 and col. 8, lines 31–64).

Regarding to claim 51, Karp et al discloses that the service person track report includes information indicating duration of time the portable wireless device was at one of the corresponding street addresses (see col. 3, line 61 to col. 4, line 33).

Regarding to claim 52, (Fig. 1), Karp et al discloses a system for tracking personnel wherein the system, comprising means (112) for providing two-way communications; means (140) for acquiring location data of the means for providing two-way communications (see col. 3, line 21–59); means (120) for converting the location data into corresponding street addresses (see col. 3, line 15 to col. 4, line 14);

means (136,138) for comparing the location data to a schedule of predetermined sites in order to determine whether a site visit was made (see col. 3, line 15 to col. 4, line 14); and

means (136) for generating a service track report to be sent by a wireless carrier to a subscriber (see col. 3, line 61 to col. 4, line 14).

Regarding to claim 53, Karp et al discloses that the means for providing two-way communications comprises a cell phone (see col. 2, lines 33-61).

Regarding to claim 58, Karp et al discloses that the service track report includes information of the service person track as a function of time and information describing whether a site visit was made (see col. 3, line 52 to col. 4, line 14).

Claim Rejections – 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary

skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claim 3-6, 7, 9-12, 23-25, 27-29, 31-34, 36-39 and 54-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Karp et al (6,154,727) in view of Fitch et al (6,321,092).

Regarding to claim 3, Karp et al does not disclose that the location identification means further acquires location data based on the detection of an emergency phone number.

Fitch et al teaches acquiring location data based on a specific phone number in order to forward the location data to a location application, and also based on detection of an emergency phone number in order to promptly forward the location data to a corresponding agency (see (116) and (118) of figure 1 and col. 6, lines 19-28).

Therefore, for an enhancement, it would have been obvious for person skilled in the art to implement Karp et al also acquiring location data based on detection of an emergency phone number in order to promptly forward the location data to a corresponding agency, as taught by Fitch et al.

Regarding to claim 4 (see Fig. 1, 3, 4A-B), Karp et al discloses that the detection is performed by a mobile telephone switching office (118B) (col. 2, line 62 to col. 3, line 14).

Regarding to claim 5, Karp et al in view of Fitch et al teaches that the location identification means forwards the location data to a first device if the specific phone number is detected and forwards the location data to a second device if the emergency phone number is detected (see Fitch et al, (116) and (118) of figure 1 and col. 6, lines 19-28).

Regarding to claim 6, Karp et al in view of Fitch et al teaches that the first device is the processor (e.g., a location application for vehicle tracking or for location based-billing programs) and the second device is one of a public service answering point, an emergency services router, and a database coupled to a public service answering point (e.g., a location application for 911 calls) (see Fitch et al, (116) and (118) of figure 1 and col. 6, lines 19-28).

Regarding to claims 7, 9-11, Karp et al does not disclose that the location data is computed based on one of, or in a combination among,

methods of TDOA computation, AOA computation, LPM computation and GPS computations.

Fitch et al teaches that location data can be computed based on one of, or in a combination among, methods including TDOA computation, AOA computation, LPM computation and GPS computations in order to obtain a desired degree of precision for the result of the obtained location data (see col. 5, lines 18-24, col. 6, lines 30-39, and col. 8, lines 23-55).

Therefore, for an enhancement, it would have been obvious for a person skilled in the art, to implement Karp et al location identification means (140) for also acquiring location data based on variety of computation methods, as taught by Fitch et al teaches, e.g., methods including TDOA computation, AOA computation, LPM computation and GPS computation in order to obtain a desired degree of precision for the result of the obtained location data.

Regarding to claim 12, Karp et al in view of Fitch et al discloses that the portable wireless device includes a GPS receiver if a GPS computation is used (see Fitch et al, col. 5, line 66 to col. 6, line 3).

Claim 23 is rejected with similar reasons set forth above for claim 5.

Claim 24 is rejected with similar reasons set forth above for claim 6.

Claims 25, 27-29 are rejected with similar reasons set forth above for claims 7, 9-11.

Claim 31 is rejected with similar reasons set forth above for claim 3.

Claim 32 is rejected with similar reasons set forth above for claim 5.

Claim 33 is rejected with similar reasons set forth above for claim 6.

Claims 34, 36-38 are rejected with similar reasons set forth above for claims 7, 9-11.

Claim 39 is rejected with similar reasons set forth above for claim 12.

Claim 54 is rejected with similar reasons set forth above for claims 7, 9-11.

Claim 55 is rejected with similar reasons set forth above for claim 3.

Claim 56 is rejected with similar reasons set forth above for claim 5.

Claim 57 is rejected with similar reasons set forth above for claim 6.

Conclusion

2. References MacDonald (5,732,354) is additionally cited because they are pertinent to the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanh D Phu whose telephone number is (703) 305-8635. The examiner can normally be reached on 8:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 703-301-6739. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-8635.

Sanh D. Phu
Examiner
Art Unit 2682

SP



LEE NGUYEN
PRIMARY EXAMINER

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